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**HIGHLY ABSORBENT COMPOSITE COMPOSITIONS, ABSORBENT SHEETS PROVIDED WITH THE COMPOSITIONS, AND PROCESS FOR PRODUCING THE SAME**

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**Abstract**

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Composite compositions containing, as the major components, fine hydratable microfibril fibers obtained from cellulose or derivatives thereof and a solid capable of swelling with water, wherein at least part of the surface of the solid is coated with the fine microfibril fibers, and a process for producing the same. The solid capable of swelling with water is exemplified by particulate polymer absorbents to which short fibers have been added as the third component. These composite absorbents may be located on supporting sheets made of, for example, a nonwoven fabric to give composite absorbent sheets applicable to various absorbent products including diapers for infants and adults.

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<b>(21) 国際出願番号</b> PCT/JP97/04606  <b>(22) 国際出願日</b> 1997年12月15日(15.12.97)  <b>(30) 優先権データ</b> <table border="0"> <tr> <td>特願平8/333520</td> <td>1996年12月13日(13.12.96)</td> <td>JP</td> </tr> <tr> <td>特願平9/124623</td> <td>1997年5月15日(15.05.97)</td> <td>JP</td> </tr> <tr> <td>特願平9/192159</td> <td>1997年7月17日(17.07.97)</td> <td>JP</td> </tr> <tr> <td>特願平9/213222</td> <td>1997年8月7日(07.08.97)</td> <td>JP</td> </tr> <tr> <td>特願平9/313368</td> <td>1997年11月14日(14.11.97)</td> <td>JP</td> </tr> <tr> <td>特願平9/329830</td> <td>1997年12月1日(01.12.97)</td> <td>JP</td> </tr> </table> <b>(71) 出願人 (米国を除くすべての指定国について)</b> 株式会社 日本吸収体技術研究所(JAPAN ABSORBENT TECHNOLOGY INSTITUTE)[JP/JP] 〒103 東京都中央区日本橋浜町二丁目26番5号 滝沢ビル3階 Tokyo, (JP) <b>(72) 発明者 ; および</b> <b>(75) 発明者 / 出願人 (米国についてののみ)</b> 鈴木 磨(SUZUKI, Migaku)[JP/JP] 〒247 神奈川県鎌倉市植木19番2号 アルス鎌倉A-301 Kanagawa, (JP)		特願平8/333520	1996年12月13日(13.12.96)	JP	特願平9/124623	1997年5月15日(15.05.97)	JP	特願平9/192159	1997年7月17日(17.07.97)	JP	特願平9/213222	1997年8月7日(07.08.97)	JP	特願平9/313368	1997年11月14日(14.11.97)	JP	特願平9/329830	1997年12月1日(01.12.97)	JP	<b>(74) 代理人</b> 弁理士 山下穰平(YAMASHITA, Johei) 〒105 東京都港区浜松町一丁目18番14号 SVAX浜松町ビル 山下国際特許事務所 Tokyo, (JP)  <b>(81) 指定国</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO特許 (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), ユーロシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧州特許 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI特許 (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  添付公開書類 国際調査報告書
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**(54) Title: HIGHLY ABSORBENT COMPOSITE COMPOSITIONS, ABSORBENT SHEETS PROVIDED WITH THE COMPOSITIONS, AND PROCESS FOR PRODUCING THE SAME**

**(54) 発明の名称** 高吸収性複合組成物、該複合組成物を備えたシート状吸収体、およびその製造方法

**(57) Abstract**

Composite compositions containing, as the major components, fine hydratable microfibril fibers obtained from cellulose or derivatives thereof and a solid capable of swelling with water, wherein at least part of the surface of the solid is coated with the fine microfibril fibers, and a process for producing the same. The solid capable of swelling with water is exemplified by particulate polymer absorbents to which short fibers have been added as the third component. These composite absorbents may be located on supporting sheets made of, for example, a nonwoven fabric to give composite absorbent sheets applicable to various absorbent products including diapers for infants and adults.

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(54) **HIGHLY ABSORBENT COMPOSITE COMPOSITIONS, ABSORBENT SHEETS PROVIDED WITH THE COMPOSITIONS, AND PROCESS FOR PRODUCING THE SAME**

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